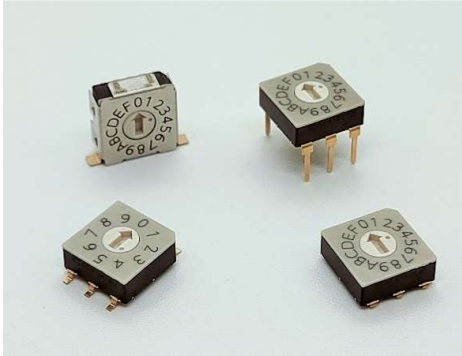


NEW DIP Switches

Introduction of KZ Series Ultra-miniature DIP Rotary Switches (Driver Type)



Ratings		0.4VA DC20V Max.
Contact Resistance		Max. 100 mΩ
Dielectric Strength Voltage		AC250V 1 minute
Insulating Resistance		Min. 1,000 MΩ
Electrical Life		10,000 steps
Temperature Range for Usage		-30 deg C - 85 deg C
Temperature Range for Storage		-30 deg C - 70 deg C
Operating Force		19.6 mN·m Max.
Soldering Conditions	Hand Soldering	Tip Temperature Max. 320 deg C, 4+/- 1 Sec.
	Re-flow Soldering	Preheat: 100 - 105 deg C, 30 +/- 5 Sec.
		Soldering Temperature: 265 +/- 3 deg C, 8 +/- 2 Sec.
		Preheat: 160 - 190 deg C, 90 - 120 Sec.
		Re-flow temperature: 225 deg C (Switch Surface), 20 - 60 Sec.
	Peak Temperature, Max. 225 deg C (Switch Surface)	
		Number of Re-flow: Max. 2 times

Product Designation

Product Designation

K

Z

1

D

C

1

0

V

S

E

Series Name

Symbol	Pitch, Color
0	2.54 mm Pitch Frame: Gray Laser Inscription
1	2.54 mm Pitch Frame: Black White Stamp

Symbol	Operational Part
D	Driver Type

Symbol	Code
R	Real
C	Compliment

Symbol	Steps
10	10-position
16	16-position

Symbol	Direction of Operational Part
V	Vertical

Symbol	Terminals
T	PC straight
S	Gull-Wing
L	J-Lead

Symbol	Packaging
M	Magazine ※1
E	Tape Reel ※2

※1 (60pcs/magazine)×60=3,600 pcs/ box

※2 For SMDs only, incl. 1,000 pcs

K Z 4 D C 1 0 H S E																																																	
Series Name																																																	
<table><tr><td>Symbol</td><td>Structure</td></tr><tr><td>4</td><td>1.27 mm pitch Holder: SUS Laser Inscription</td></tr></table>		Symbol	Structure	4	1.27 mm pitch Holder: SUS Laser Inscription	<table><tr><td>Symbol</td><td>Operational Part</td></tr><tr><td>D</td><td>Driver Type</td></tr></table>		Symbol	Operational Part	D	Driver Type	<table><tr><td>Symbol</td><td>Code</td></tr><tr><td>R</td><td>Real</td></tr><tr><td>C</td><td>Compliment</td></tr></table>		Symbol	Code	R	Real	C	Compliment	<table><tr><td>Symbol</td><td>Step</td></tr><tr><td>10</td><td>10-Position</td></tr><tr><td>16</td><td>16-Position</td></tr></table>		Symbol	Step	10	10-Position	16	16-Position	<table><tr><td>Symbol</td><td>Direction</td></tr><tr><td>H</td><td>Horizontal</td></tr></table>		Symbol	Direction	H	Horizontal	<table><tr><td>Symbol</td><td>Terminals</td></tr><tr><td>T</td><td>PC Straight</td></tr><tr><td>S</td><td>Gull-Wing</td></tr></table>		Symbol	Terminals	T	PC Straight	S	Gull-Wing	<table><tr><td>Symbol</td><td>Package</td></tr><tr><td>M</td><td>Magazine ※3</td></tr><tr><td>E</td><td>Tape Reel ※4</td></tr></table>		Symbol	Package	M	Magazine ※3	E	Tape Reel ※4
Symbol	Structure																																																
4	1.27 mm pitch Holder: SUS Laser Inscription																																																
Symbol	Operational Part																																																
D	Driver Type																																																
Symbol	Code																																																
R	Real																																																
C	Compliment																																																
Symbol	Step																																																
10	10-Position																																																
16	16-Position																																																
Symbol	Direction																																																
H	Horizontal																																																
Symbol	Terminals																																																
T	PC Straight																																																
S	Gull-Wing																																																
Symbol	Package																																																
M	Magazine ※3																																																
E	Tape Reel ※4																																																
※3 T:60 pcs/mag. × 60=3,600 pcs/box S:45 pcs/mag. × 60=2,700 pcs/box ※4 For Gull-wing only 500 pcs																																																	

Materials

Parts Name	Materials	Finish	Parts Name	Materials	Finish
Case	PPS	Black	Stationary Plate	Copper Alloy	Gold Flush
Frame	PPS	Gray / Black	Movable Plate	Copper Alloy	Gold Plating
Rotor	LCD Polymer	White	Bracket	SUS	Silver
Plate	SUS	-			

Code

■ : The Set Position when delivered

■ Binary Coded
Decimal
Real Code

Position	0	1	2	3	4	5	6	7	8	9
1	●	●	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●	●	●	●
8	●	●	●	●	●	●	●	●	●	●

■ Binary Coded
Decimal
Compliment Code

Position	0	1	2	3	4	5	6	7	8	9
1	●	●	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●	●	●	●
8	●	●	●	●	●	●	●	●	●	●

■ Binary Coded
Hexadecimal
Real Code

Position	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

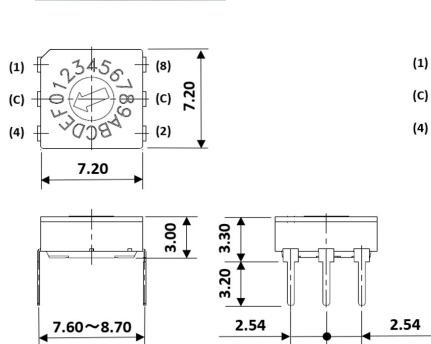
■ Binary Coded
Hexadecimal
Compliment Code

Position	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
8	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

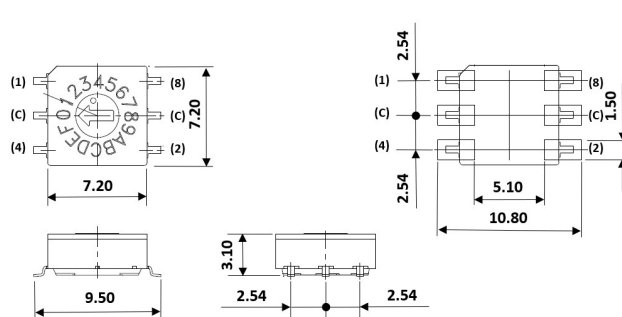
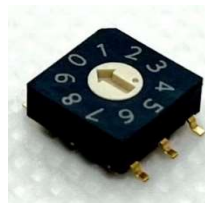
Requests for customization (color, legends printing, etc.) are welcomed. Please contact our sales.

Vertical PC Straight

KZ*D□**VTM

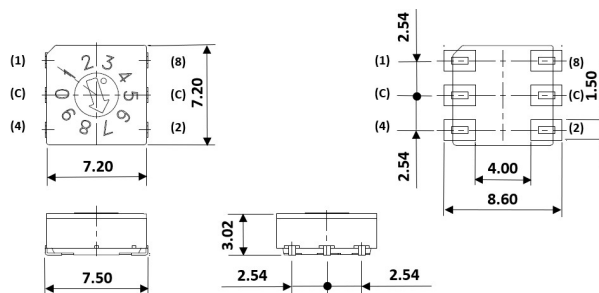


Vertical Gull-Wing

KZ*D□**VS□

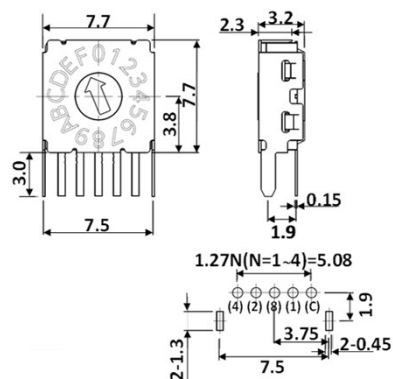
Vertical J-Lead

KZ*D□**VL□

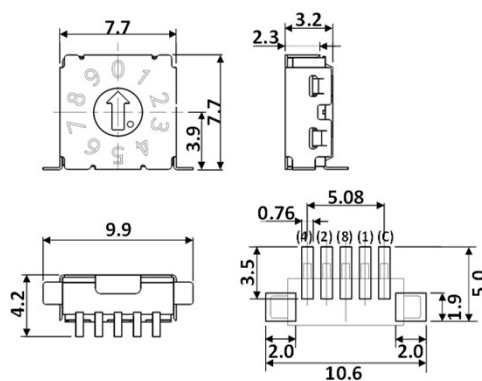


Horizontal PC Straight

KZ4D□**HT□



Horizontal Gull-Wing

KZ4D□**HS□

OTAX Co., Ltd.

**1215, Nippacho, Kohoku-ward, Yokohama,
223-8558, Japan**
TEL:045-543-5621(rep.) FAX:045-542-3503
<http://www.otax.co.jp/> E-mail:sales@otax.co.jp